

James C. SOLINSKY
Serial No. 09/658,275
Response to office action dated October 6, 2003

Amendments to the Drawings:

The attached sheets of drawings includes changes to Figures 1, 2, 3, 7, 8 and 9. These sheets, which include Figures 1, 2, 3, 7, 8 and 9 replace the original sheets including these figures. Captions in Figures 1, 2, 3, 7, 8 and 9 have been changed. In addition, in Figure 3, an arrow has been added to the line connecting elements 14 and 15.

Attachment: Replacement Sheets
Annotated Sheets Showing Changes

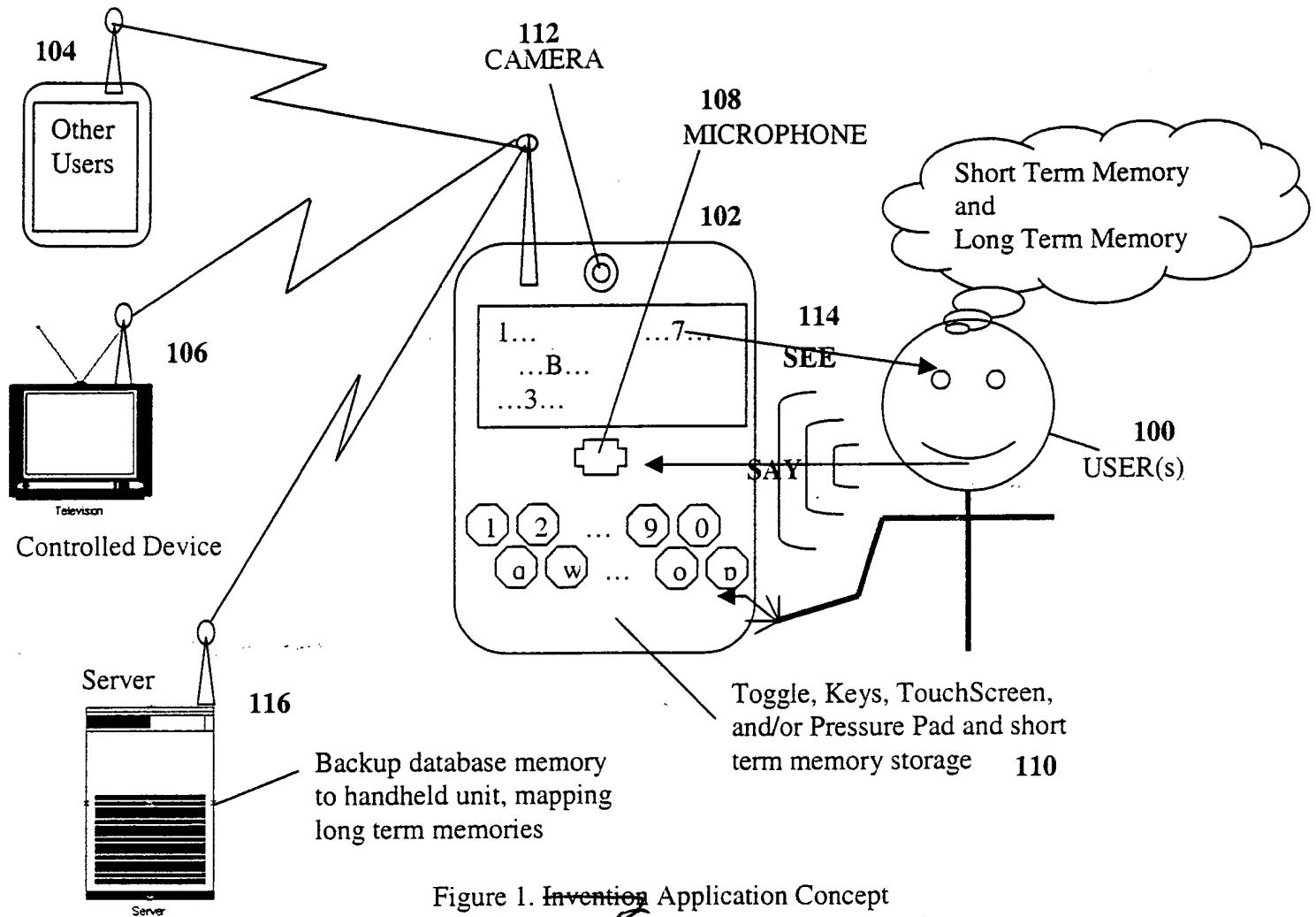


Figure 1. Invention Application Concept

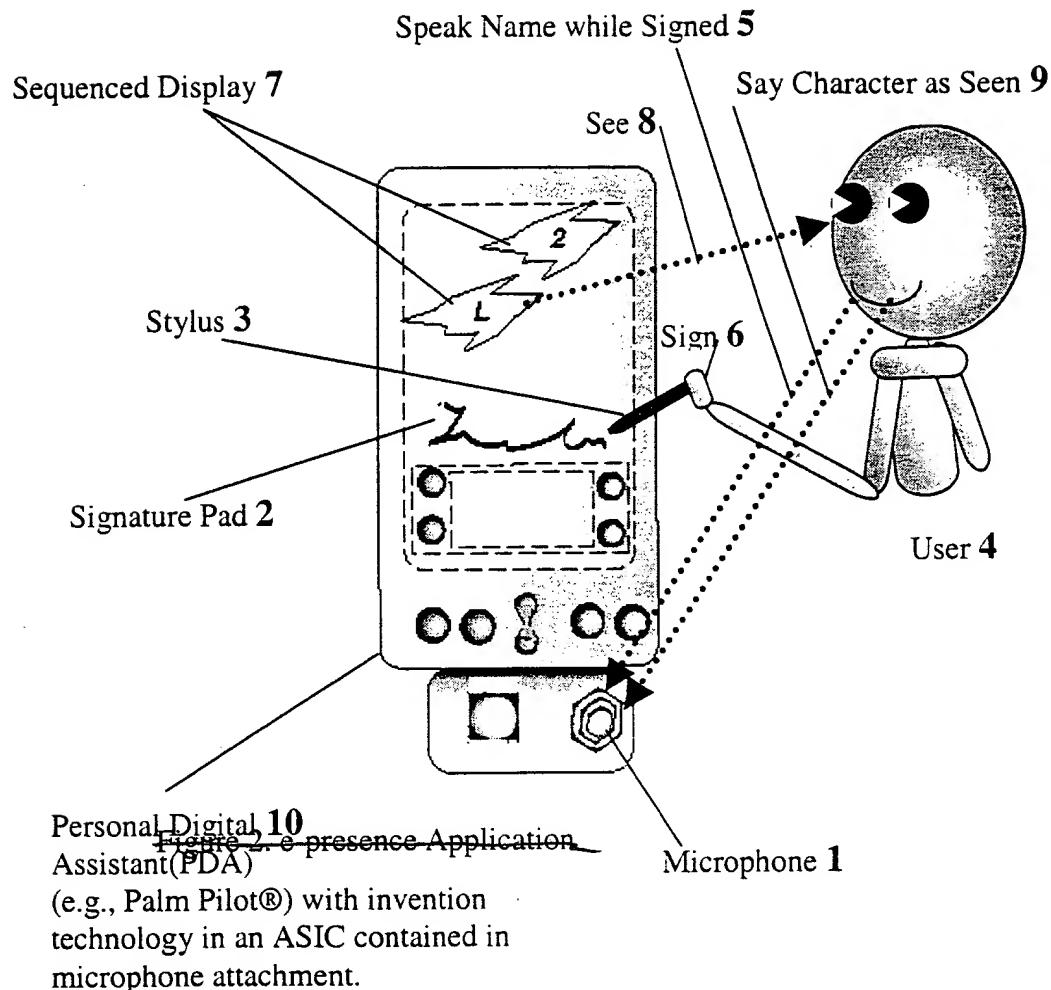
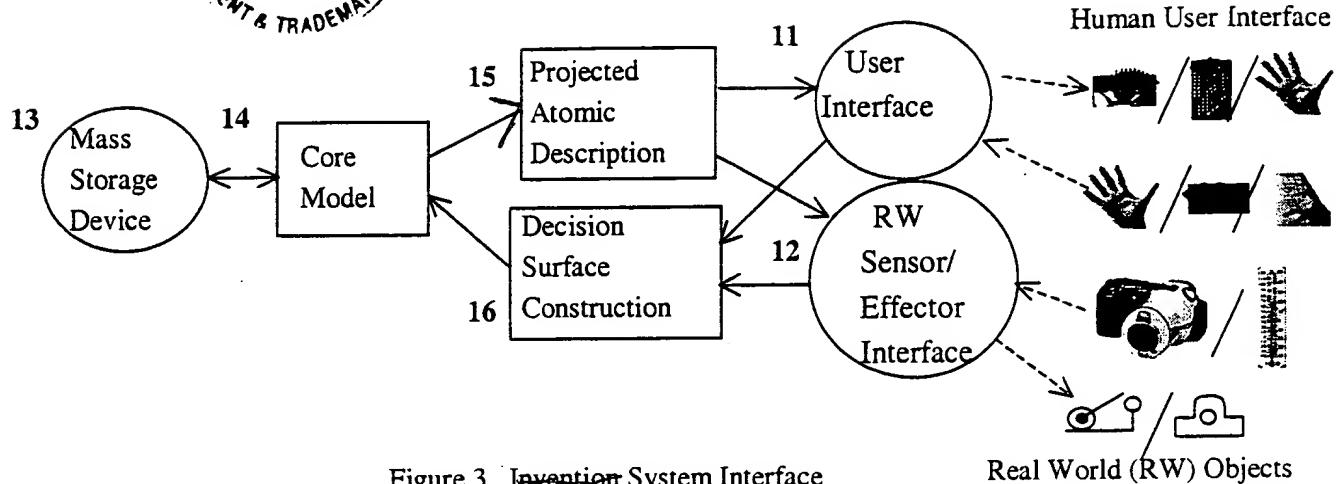


Figure 2. e-presence Application



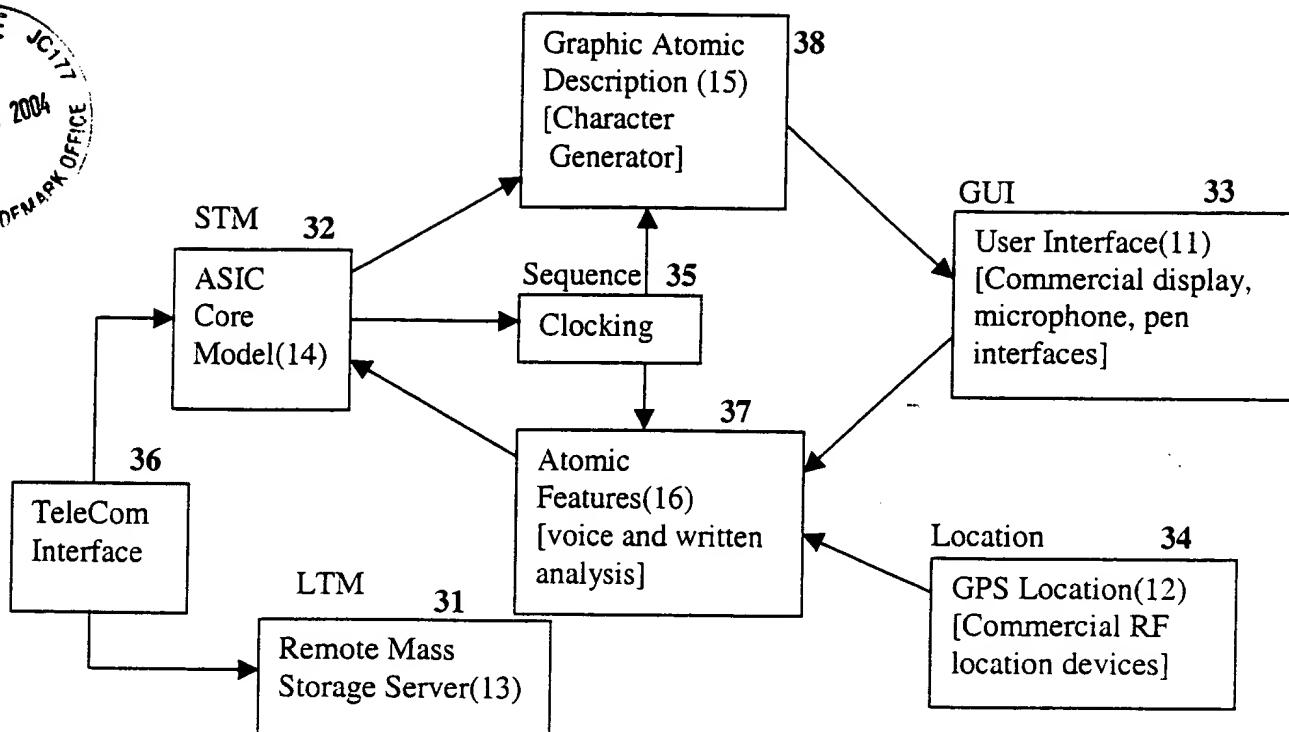


Figure 7. User Authentication ID Application with the invention technology



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STM

Synthesized OD Model Construction

- > OD as singular, linked points in N-D space with axis fidelity coupled to projected densities
- > subspace representations of N-D expression (with N, N'; M, M' mapping)
- > atomic attributes as subspace projections with HOS fidelity driven by OD
- > correlated, non-orthogonal fractal axis cells with Eq. (13) - (17) projections including concurrency utilization
- > NN to capture N-D space cell correlation
- > NN, TC, and generalized decision modules for class filtering
- > class filtering using projections with asymmetric HOS, Hermite moment density, and feature evaluation
- > TC use of random seed, local normalization, addresses linked to worldline, and expansion to N = infinity

OD Model Use and Dynamics

- > liquid/gas model on $\rho(\bar{x}_m)$ density representation dynamics
- > synthesis feedback from MV features on 2-D OD subspace projections
- > chunking of OD elements with user viewpoint to minimize entropy H
- > SD metric and balloon matrix \tilde{D} metric as search strategy feedback in $\min(H)$ OD synthesis
- > AC as a dynamic metric in using d, τ and \overline{crn} to minimize feedback cycle time
- > AC for OD transformation with equivocation on C_L latency cost; construction of CC limits on information (known) flow and BW limits on data (unknown) flow; and fidelity represented by CC, CF and Re.

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User and/or RW inputs
 (incorporate evolving formats)

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Respond to input Stimuli
 (emotional sensing)

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LTM

RDB Storage

- > Linking of STM synthesis to LTM
- > OD representation in tuple using predicate calculus structure of (noun/verb/object/label)
- > \tilde{P}_m, \tilde{L}_m axis definition and TC/NN class decision surface storage with adaptive threshold d as tuple fields
- > Subspace N' mapping from N-D OD in STM synthesis
- > NN taxonomy to OD N-D space for common knowledge formation via mutual user interaction
- > dynamic control of AC uncertainty in LTM building across user group with min/max d range

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Capture user/RW input exemplars
 (input atomic attribute level)

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Store Modeled Synthesis
 (use of Internet, LAN, and remote server methods)

45

Retrieve and Use Modeled Synthesis
 (use of Internet, LAN, and remote server methods)

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User and/or RW
 outputs

46

Generate output response - Request new input
 (forced choice confusion for user knowledge extraction)

Figure 8. Invention Method Flow Chart

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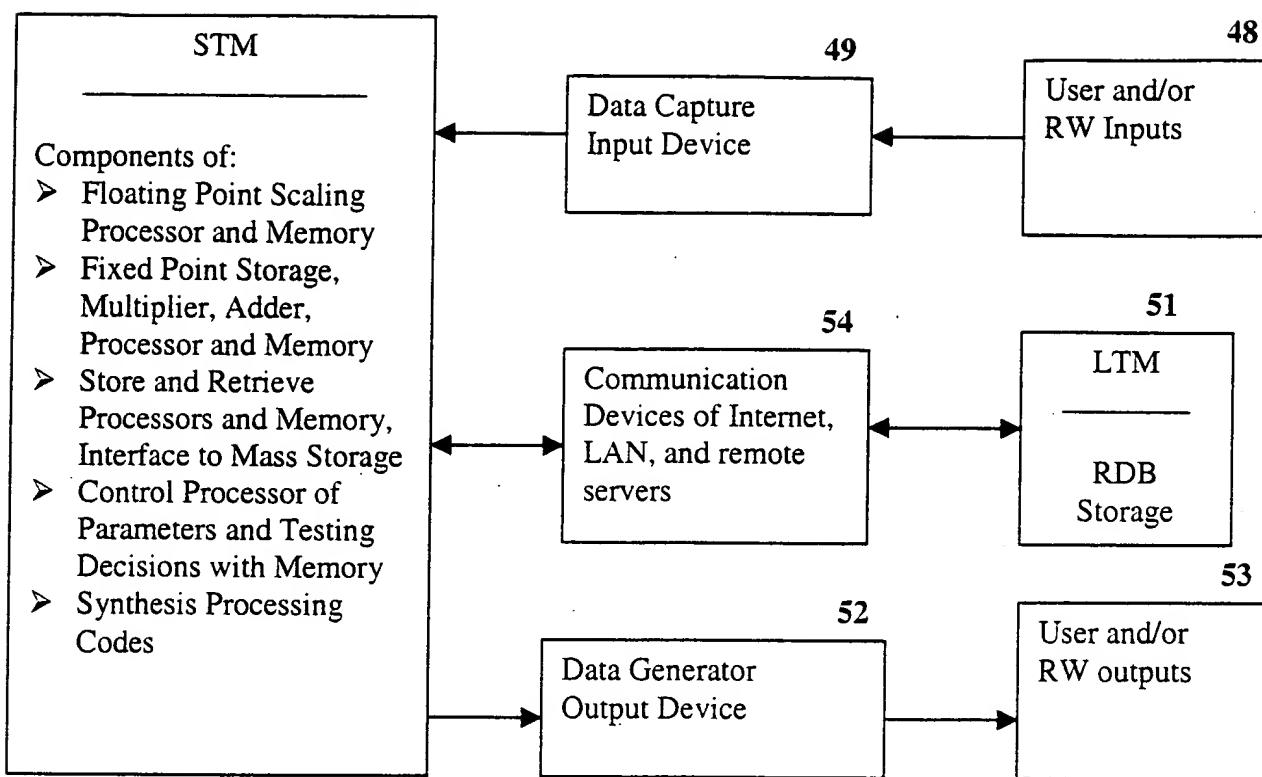


Figure 9. Invention System Generic Block Diagram



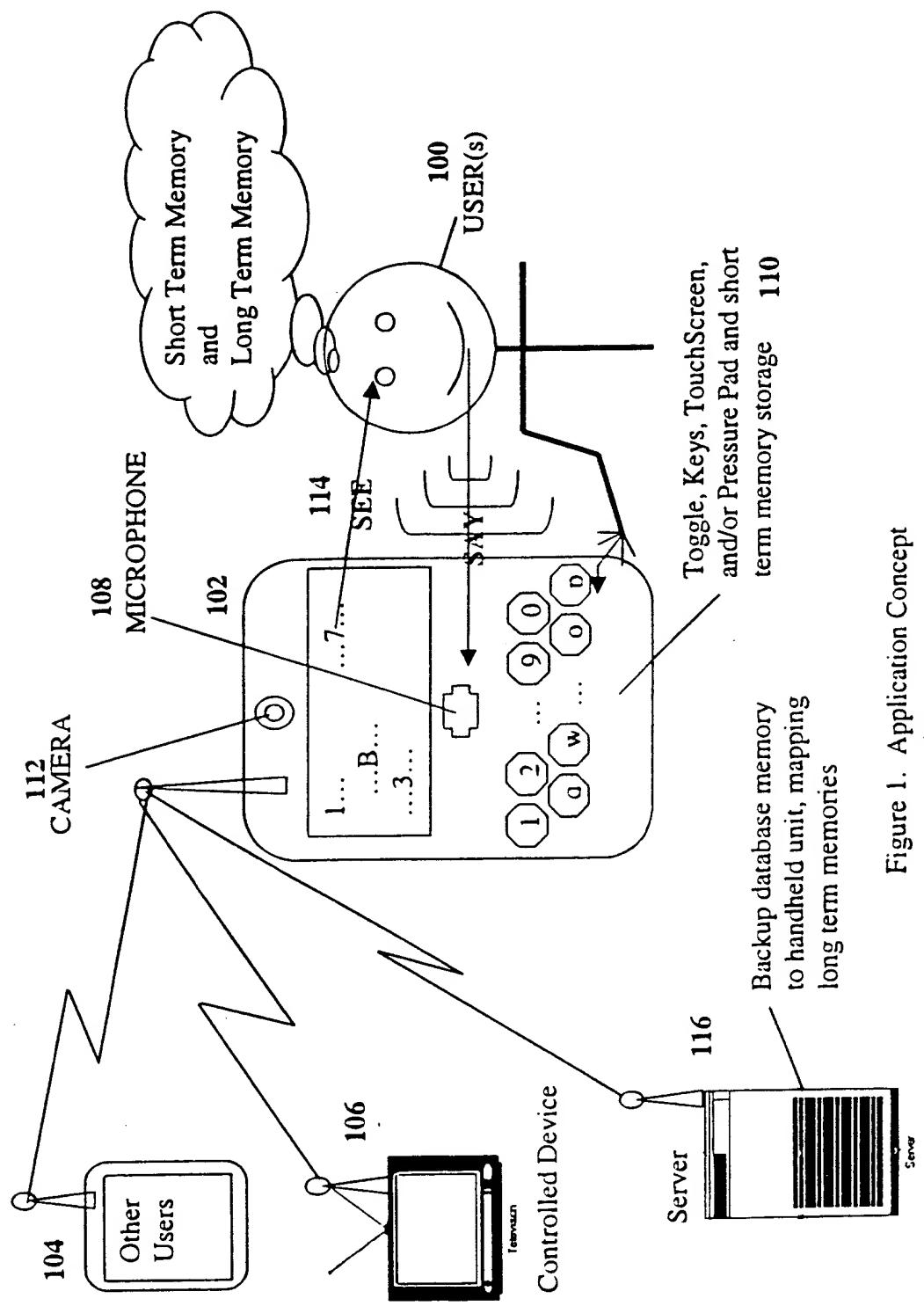


Figure 1. Application Concept

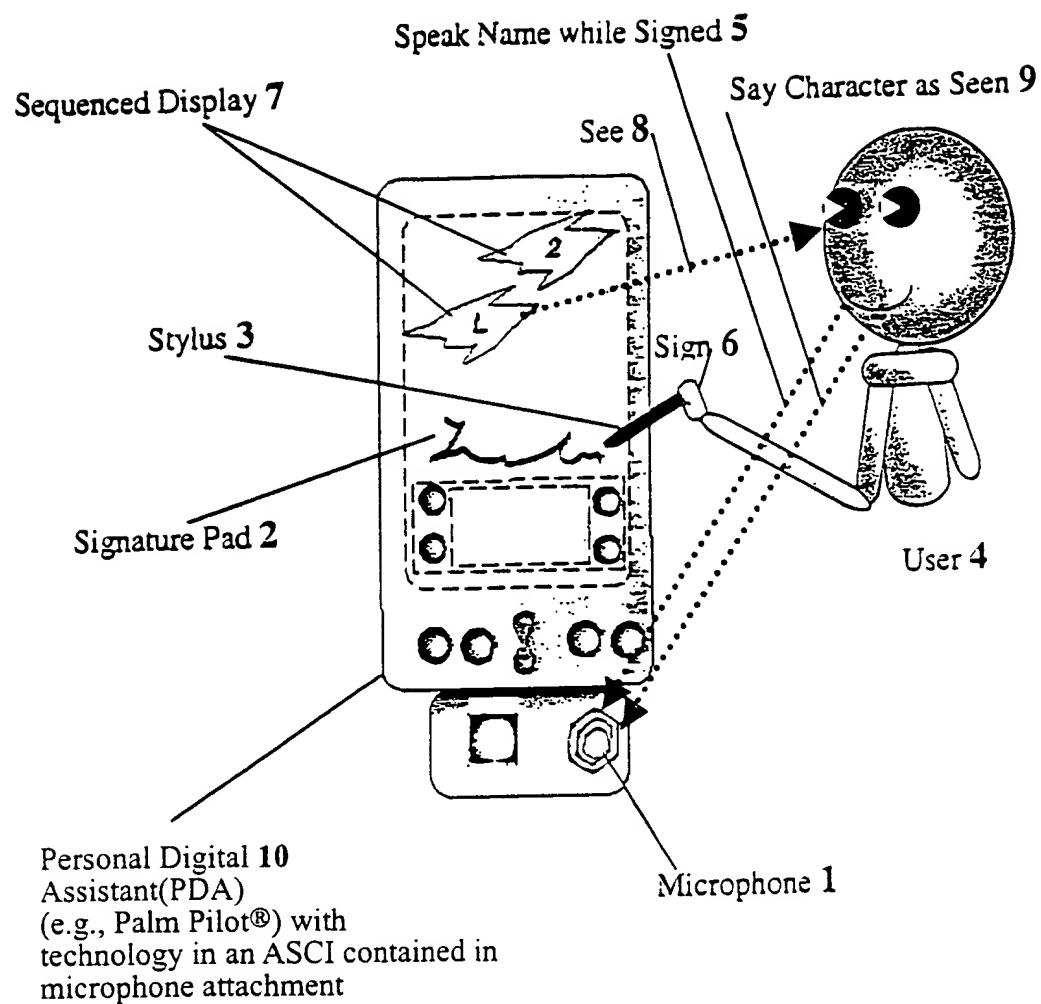


Figure 2 e-presence Application

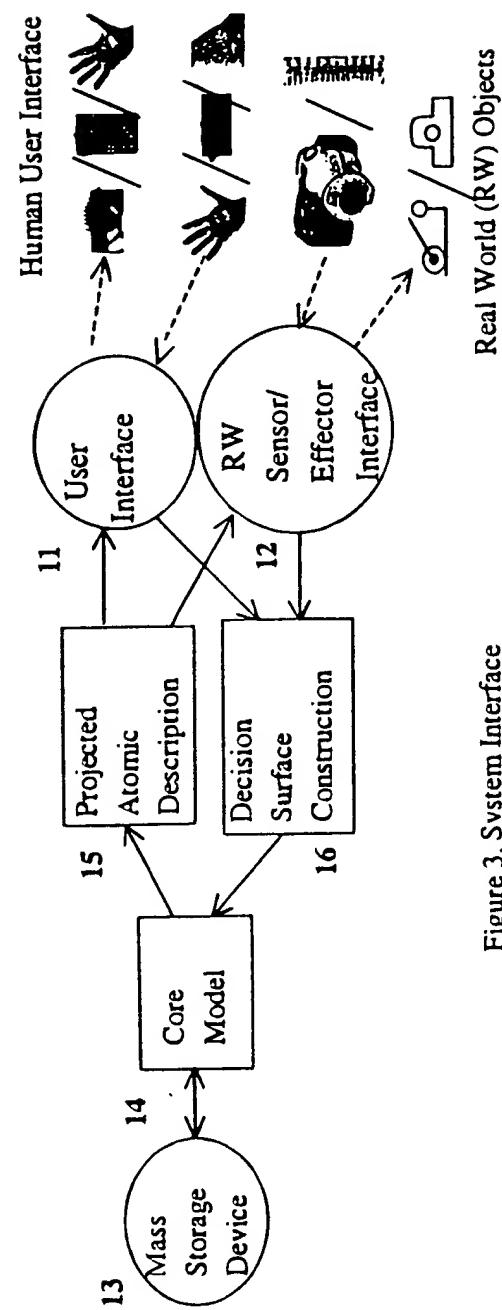


Figure 3. System Interface

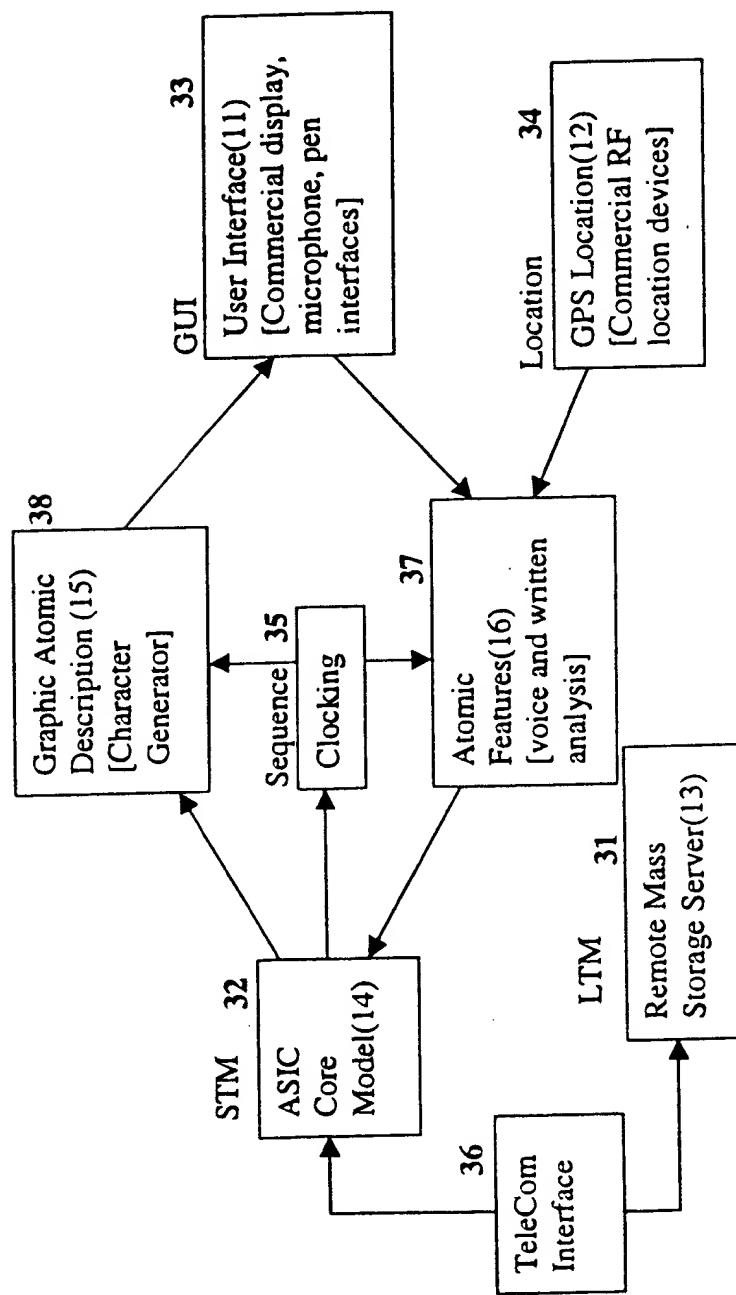


Figure 7. User Authentication ID Application

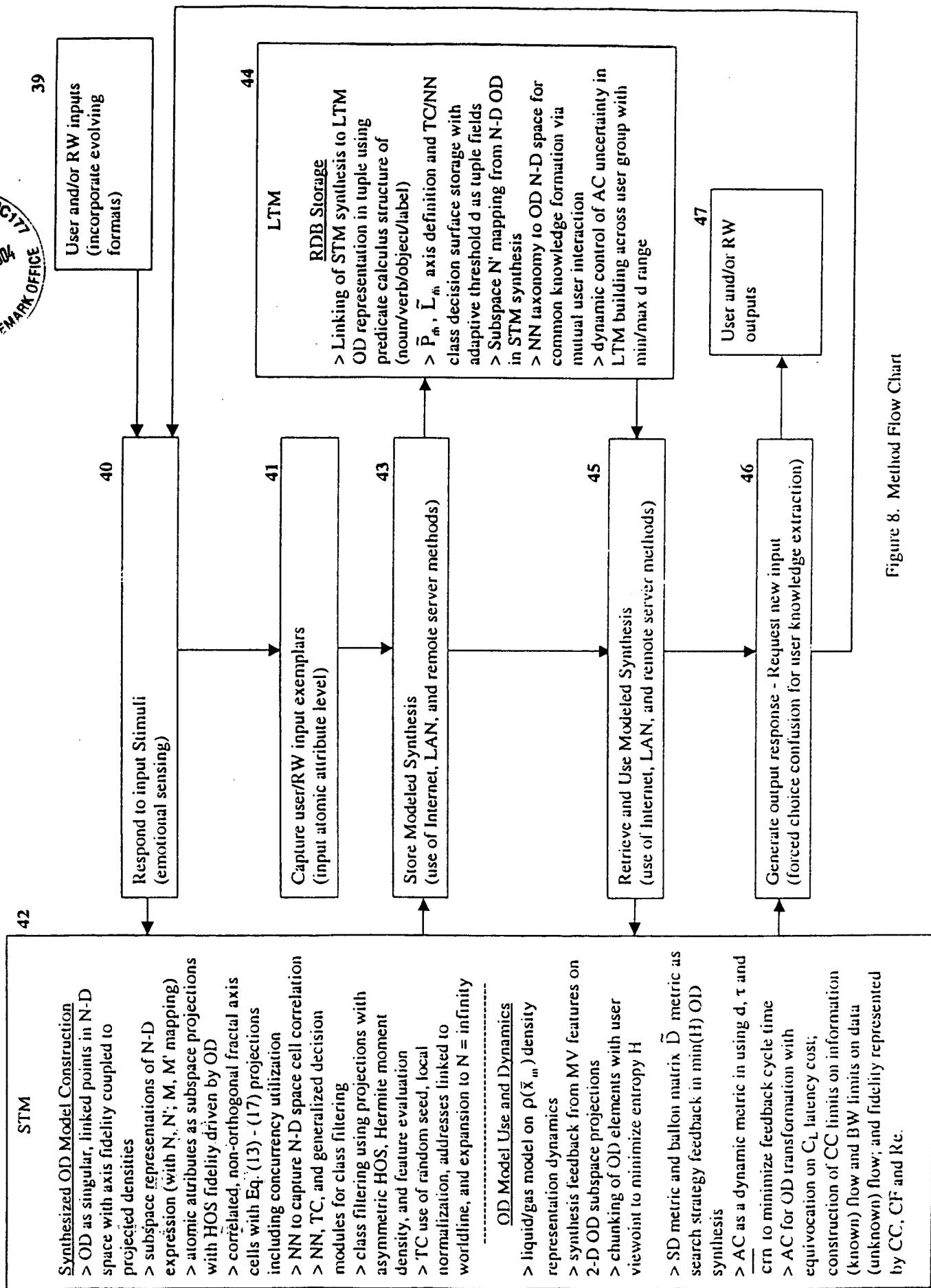


Figure 8. Method Flow Chart

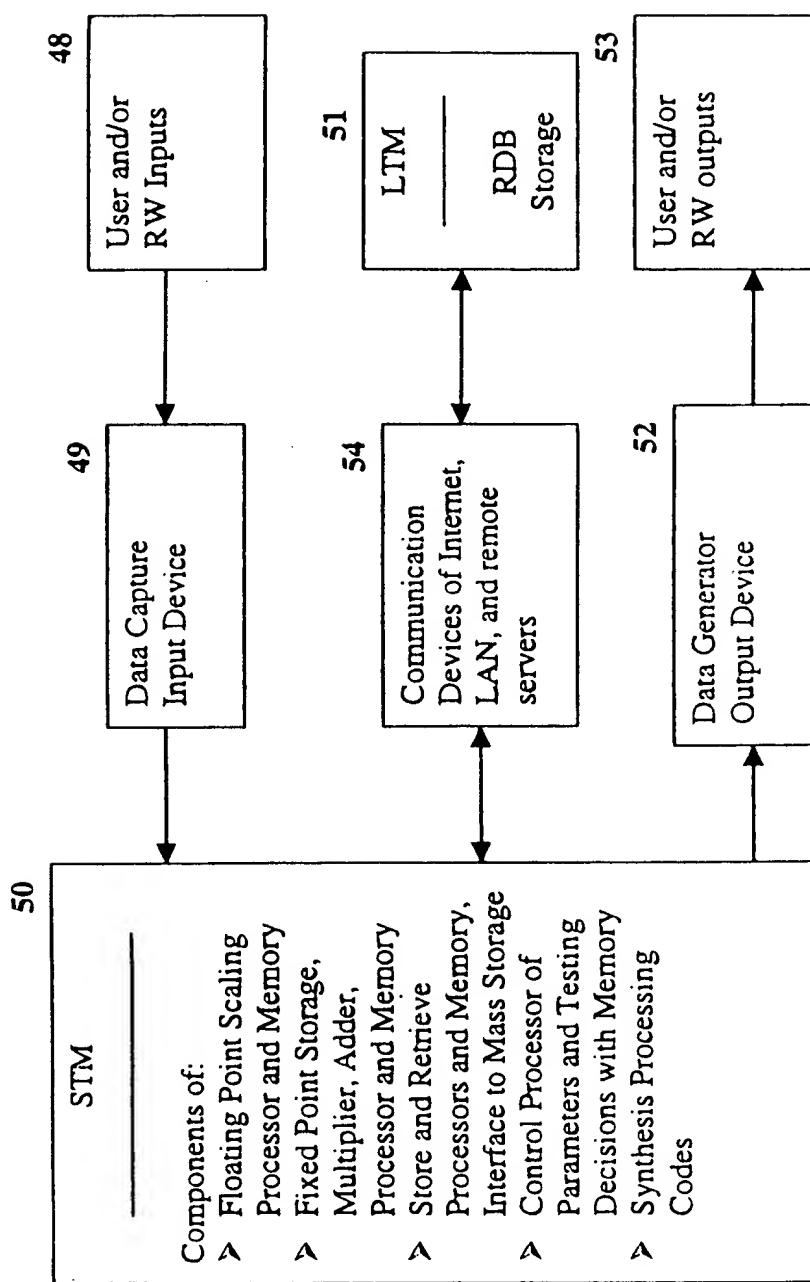


Figure 9. System Generic Block Diagram